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(71) 出願人 サンゴバン・イソペール
 フランス国、エフ-92400 クールベボワ、
 アブニュ・ダルザス 18、"レ・ミロワール"
 (72) 発明者 ベルナル、ジャンルーク
 フランス国、エフ-60800 クレルモン、
 ジャンクール、リュ・アンドレ・ウディン
 51
 (72) 発明者 ビニユール、セルジュ
 フランス国、エフ-75018 パリ、リュ・
 ベルト 39
 (74) 代理人 弁理士 錦江 隆雄 (外3名)

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(54) 【発明の名称】 ミネラルウール組成物

(57) 【要約】

生知学的操作中に溶解し得るミネラルウールであって、
 組成成分が以下の重量パーセンテージ：S i O₂
 35～60%、好ましくは 39～55% A l
 ； O₃ 12～27%、好ましくは 16～
 25% C a O 0～35%、好ましくは
 3～25% M g O 0～30%、好ま
 しくは 0～15% N a₂ O 0～1
 7%、好ましくは 6～12% K₂ O
 0～17%、好ましくは 3～12% R₂
 O (N a₂ O + K₂ O) 10～17%、好ましく
 は 12～17% F e₂ O₃ 0～5
 %、好ましくは 0～2% F e₂ O₃
 0～20%、B₂ O₃ 0～8%、好まし
 くは 0～4% T i O₂ 0～3
 %、で示されるところの繊維を含み、また、P 2 O₅ 形
 態で表現されるリン含有量が、繊維の全質量の0.2%
 から、特に0.5%を超える量から、5%まで、特に2
 %未満までの範囲にあり、かつ繊維の表面上に被覆を形
 成するように繊維と100℃を超える温度で反応し得る

ところのリン系化合物を含む。

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CLAIMS

[Claim(s)]

[Claim 1] It is a thermally stable mineral wool which may dissolve in a physiological medium, and constituents are the following weight percentages. : SiO_2 35–60%, desirable — 39–55% aluminum — 2O_3 12 to 27% — desirable — 0 to 35% of CaO 16 to 25%, desirable — 0 to 30% of 3–25% MgO — desirable — 0–15% Na_2O — 0 to 17%, desirable — 6–12% K_2O 0–17% — desirable — 3–12% R_2O ($\text{Na}_2\text{O}+\text{K}_2\text{O}$) — 10 to 17%, It is desirable. Preferably 12 to 17% P_2O_5 0 to 5% 0– 2% Fe_2O_3 0–20%, B_2O_3 0– 8% — desirable — 0– 4% TiO — 2O to 3%, it comes out, and phosphorus content with a P_2O_5 gestalt including textiles shown, [express and] A mineral wool containing the Lynn system compound which can react to textiles at temperature over 100 ** so that it may be in a range up to less than 2% and covering may be especially formed on the surface of textiles from quantity exceeding especially 0.5% to 5% in 0.2% of total mass of textiles.

[Claim 2] Constituents are the following weight percentages. : SiO_2 39–55%, desirable — 40–52% aluminum — 3 to 35% of CaO 16 to 25% preferably 2O_3 16 to 27%, desirable — 0 to 15% of 10–25% MgO — desirable — 0–10% Na_2O — 0 to 15%, desirable — 6–12% K_2O 0–15% — desirable — 3–12% R_2O ($\text{Na}_2\text{O}+\text{K}_2\text{O}$) — 10 to 17%, It is desirable. Preferably 12 to 17% P_2O_5 0 to 5% 0– 2% Fe_2O_3 0–15%, B_2O_3 0– 8% — desirable — 0– 4% TiO — the mineral wool according to claim 1 which comes out and is characterized by especially MgO being 0 thru/or 2% 0 thru/or 5% when it is $\text{R}_2\text{O} \leq 13.0\%$ 2O to 3% including textiles shown.

[Claim 3] Constituents are the following weight percentages. : SiO_2 39–55%, desirable — 40–52% aluminum — 3 to 35% of CaO 17 to 22% preferably 2O_3 16 to 25%, desirable — 0 to 15% of 10–25% MgO — desirable — 0–10% Na_2O — 0 to 15%, desirable — 6–12% K_2O 0–15% — desirable — 6–12% R_2O ($\text{Na}_2\text{O}+\text{K}_2\text{O}$) — 13.0 to 17%, P_2O_5 0– 5% — desirable — 0– 2% Fe — the mineral wool according to claim 1 or 2 by which textiles preferably shown at 0– 4% TiO 2O – 3% being included 2O_3 0 to 15% B_2O_3 0 to 8%.

[Claim 4] A mineral wool of Claims 1–3 to which alkali content ($\text{Na}_2\text{O}+\text{K}_2\text{O}$) of textiles is especially characterized by being $\leq [13.3\% \text{ of } \text{R}_2\text{O} \leq 14.5\% \leq [13.0\% \text{ of } \text{R}_2\text{O} \leq 15\% \text{ given in any 1 paragraph.}$

[Claim 5] Fe_2O_3 (iron whole quantity) content of textiles — $0\% \leq \text{Fe}_2\text{O}_3 \leq 5\%$ — desirable — $0\% \leq \text{Fe}_2\text{O}_3 \leq 3\%$ — especially — a mineral wool of Claims 1–4 being $0.5\% \leq \text{Fe}_2\text{O}_3 \leq 2.5\%$ given in any 1 paragraph.

[Claim 6] Fe_2O_3 (iron whole quantity) content of textiles — $5\% \leq \text{Fe}_2\text{O}_3 \leq$ — a mineral wool of

Claims 1-4 especially characterized by being $5\% \leq \text{Fe}_2\text{O}_3 \leq 8\%$ 15% given in any 1 paragraph.

[Claim 7] A mineral wool of Claims 1-6 given in any 1 paragraph, wherein a presentation of textiles satisfies following relation $(\text{Na}_2\text{O} + \text{K}_2\text{O}) / \text{aluminum}_2\text{O}_3 \geq 0.5$.

[Claim 8] A mineral wool of Claims 1-7 to which a presentation of textiles is characterized by following relation $(\text{Na}_2\text{O} + \text{K}_2\text{O}) / \text{aluminum}_2\text{O}_3 \geq 0.6$ and satisfying $(\text{Na}_2\text{O} + \text{K}_2\text{O}) / \text{aluminum}_2\text{O}_3 \geq 0.7$ especially $(\text{Na}_2\text{O} + \text{K}_2\text{O})$ given in any 1 paragraph.

[Claim 9] lime of textiles, and content of magnesia — $10\% \leq \text{CaO} \leq 25\%$ — especially — $15\% \leq \text{CaO} \leq 25\%$ and $0\% \leq \text{MgO} \leq 5\%$ — desirable — $0\% \leq \text{MgO} \leq 2\%$ — a mineral wool of Claims 1-8 especially characterized by being $0\% \leq \text{MgO} \leq 1\%$ 2% given in any 1 paragraph.

[Claim 10] lime of textiles, and content of magnesia — $5\% \leq \text{MgO} \leq 10\%$ and $5\% \leq \text{CaO} \leq 25\%$ — a mineral wool of Claims 1-8 characterized by being $5\% \leq \text{CaO} \leq 10\%$ preferably 10% given in any 1 paragraph.

[Claim 11] A mineral wool of Claims 1-10 having a dissolution rate of 30 ng/cm^2 even if textiles measure by pH of 4.5 and there are per hour given in any 1 paragraph. [few]

[Claim 12] A mineral wool of Claims 1-11 given in any 1 paragraph, wherein glass equivalent to textiles can fibrose by internal centrifugality.

[Claim 13] A mineral wool of Claims 1-12 given in any 1 paragraph, wherein covering which may be formed on the surface of textiles consists of phosphoric acid alkaline earth metal salt intrinsically.

[Claim 14] The mineral wool according to claim 13, wherein phosphoric acid alkaline earth metal salt is calcium phosphate.

[Claim 15] A mineral wool of Claims 1-14 being the compounds which decompose at temperature to which the Lynn system compound which can react to textiles exceeds 100°C , and emit phosphoric acid or a phosphoric anhydride given in any 1 paragraph.

[Claim 16] The mineral wool according to claim 15, wherein the Lynn system compound is chosen from ammonium phosphate, phosphoric acid, and ammonium hide ROGENO phosphate (ammonium hydrogenophosphate).

[Claim 17] It is a manufacturing method of a mineral wool and constituents are the following weight percentages. : SiO_2 35-60%, desirable — 39-55% aluminum 2O_3 12 to 27% — desirable — 0 to 35% of CaO 16 to 25%, desirable — 0 to 30% of 3-25% MgO — desirable — 0-15% Na_2O — 0 to 17%, desirable — 6-12% K_2O 0-17% — desirable — 3-12% R_2O ($\text{Na}_2\text{O} + \text{K}_2\text{O}$) — 10 to 17%, desirable — 12-17% P_2O_5 0-5% — desirable — 0-2% Fe 2O_3 0 to 20%, B_2O_3 0-8% — desirable — 0-4% TiO — it coming out, and textiles being formed substantially, and from oxide melt shown, 2⁰ to 3%, [rank second and] How applying the Lynn system compound which can react to textiles in order to form covering on the surface of textiles especially according to a spray or being solution impregnated.

[Claim 18] Use of a mineral wool of Claims 1-16 in a fireproof structure system given in any 1 paragraph.

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JAPANESE [JP,2003-527287,A]

CLAIMS DETAILED DESCRIPTION DRAWINGS

[Translation done.]

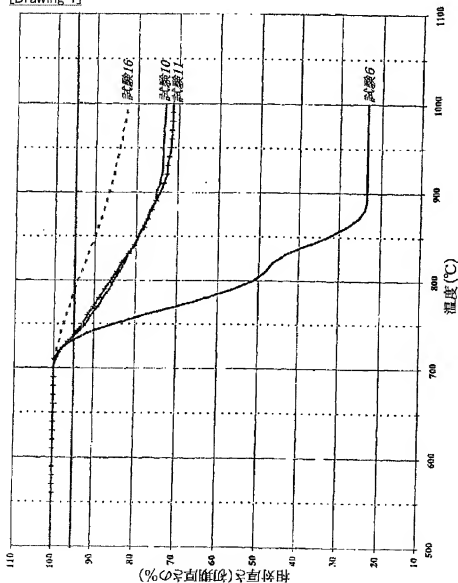
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DRAWINGS

[Drawing 1]



[Translation done.]